

IN THE DRAWINGS:

Applicant submits herewith a substitute Sheet No. 7 containing Figure 4 and reflecting corrections made to Figure 4.

REMARKS

Applicant respectfully thanks the Examiner for his allowance of the claims.

Objections to the Drawings

The Examiner objected to the drawings under 37 CFR 1.83(a) for failing to show: a) an integrated heat spreader having a groove and a cavity, an insulating layer formed in the groove and a power conduit mounted in the groove, the power conduit electrically isolated from the IHS by the insulating layer; b) the cavity is to accommodate a semiconductor die; c) the power conduit is mounted on a first side of the IHS and a second power conduit is mounted on a second side of the IHS; d) a first input/output breakout mounted on the package substrate on a third side opposite the first side of the IHS and a second breakout mounted on the package substrate on a fourth side opposite the second side of the IHS; and e) the power conduit comprises an edge connector.

Applicant respectfully disagrees. The Examiner appears to submit that a single drawing must show all of the claimed features. However, 37 C.F.R. § 1.83 does not require that every claimed feature be shown in a single drawing; 37 C.F.R. § 1.83 merely requires that the drawings of the application show the claimed features. Moreover, 35 U.S.C. § 113 requires a drawing only where necessary for the understanding of the subject matter to be patented.

Accordingly, Applicant has elected not to show all of the features within a single drawing as this is within the discretion of Applicant.

Each of the features is shown in the drawings of the application. The integrated heat spreader (IHS) (510) having a groove (e.g., 514-522) and a cavity (512) formed therein is shown in FIG. 5B. FIG. 5B also illustrates an insulating layer (e.g., 524-532) formed in the groove (e.g., 514-522). FIG. 5E shows the power conduit (e.g., 552-560) mounted in the groove, the power conduit electrically isolated from the IHS by the insulating layer.

As discussed above, a cavity (512) is shown in FIG. 5B. Applicant respectfully submits that it does not need to be shown that the cavity is to accommodate a semiconductor die, as it is not necessary for the understanding of the subject matter to be patented.

FIG. 5E shows a power conduit (e.g., 552-554) on a first side of the IHS and a second power conduit (e.g., 556-558) mounted on a second side of the IHS.

FIG. 2E shows the IO breakout 160 on the semiconductor die. The IO breakout is also described in paragraph 38 of the specification.

As described with respect to FIG. 3A, the power conduits can comprise an edge connector to allow for simplified connections with the semiconductor die.

The Examiner objected to the drawings because the following reference characters were not mentioned in the description: a) 408; b) 410; c) 412; d) 414; and e) 416.

Applicant respectfully disagrees. Reference character 408 is described in the specification at paragraph 45, page 15. Reference characters 410 and 412 are described in the specification at paragraph 46, page 15. Reference characters 414 and 416 are described in the specification at paragraph 48, page 16.

The Examiner objected to the drawings because reference character "408" has been used to designate both "forma a conductive ring with inwardly extending tabs" and "apply an epoxy to the IHS." The Examiner also objected to the drawings because Figure 4 contains a typographical error.

Figure 4 has been amended to correct the typographical error "FORMA" to "FORM." Applicant respectfully submits that the reference character 408 referring to "form a conductive ring with inwardly extending tabs" was a typographical error as well. In the specification, reference character 406 refers to "form a conductive ring with inwardly extending tabs." No new matter has been added.

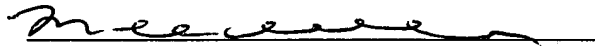
Applicant respectfully requests that the objections to the drawings be withdrawn and submit the application is now in condition for allowance.

Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

Respectfully submitted,

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